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CITATION IN AN APPLICATION

(PTO-1449)

ATTY. DOCKET NO. **066872-0039** 

SERIAL NO. 10/821,669

APPLICANT

ATASSI, M. Zouhair

FILING DATE
April 09, 2004

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EXAMINER'S INITIALS	CITE NO.		Document Number er-Kind Code2 (************************************	Publication Date MM-DD-YYYY			Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
Visit	1	US	4,551,435	11/05/1985	Liberti et al		436/541		
-14	2	US	4,643,718	02/17/1987	Marten		604/2	604/28	
,	3	US	6,676,622	01/13/2004	Strahilevitz	:	604/5.01		
1/	4	US	2004/0175385	09/09/2004	Marks et al				
V	5	US	2002/0155114	10/24/2002	Marks et al				
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EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes -Number 4 -Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lin Where Relevant Figures Appear	res Translation			
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109	6				ological comparison of a bhage libraries," Vaccine			ies	
	7	botuli	Amersdorfer et al., "Molecular characterization of murine humoral immune response to botulinum neurotoxin type A binding domain as assessed by using phage antibody libraries,"  Infect. Immun. 65:3743-3752 (1997).						
	8	Aoki, "Pharmacology and immunology of botulinum toxin serotypes," J. Neurol. 248 Suppl. 1:3-10 (2001).					:3-		
	9	Atassi and Dolimbek, "Mapping of the antibody-binding regions on the HN-domain (residues 449-859) of botulinum neurotoxin A with antitoxin antibodies from four host species. Full profile of the continuous antigenic regions of the H-chain of botulinum neurotoxin A," Protein J. 23:39-52 (2004).				1			
	10	Atassi and Oshima, "Structure, activity, and immune (T and B cell) recognition of botulinum neurotoxins," Crit. Revs. Immunol. 19:219-260 (1999).							
	11		i and Smith, "A promochemistry 15:60		menclature of antigenic	sites in peptides a	and proteins,	,,	

SPA 12/9/05

SHEET Page 2 OF 4

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	ATTY: DOCKET NO. 066872-0039	SERIAL NO. 10/821,669
	APPLICANT ATASSI, M. Zouhair	
(PTO-1449)	FILING DATE April 09, 2004	GROUP 1653 /6 4

188	12	Atassi et al., "Cross-reaction of mouse antibodies against Tetanus neurotoxin with Botulinum neurotoxins A and B," International Conference 2002, Basic and Therapeutic Aspects of Botulinum and Tetanus Toxins, Hannover, Germany, June 8-12, Abstract R12 (2002).	
	13	Atassi et al., "Localization and synthesis of the hormone-binding regions of the human thyrotropin receptor," Proc. Natl. Acad. Sci. USA 88:3613-3617 (1991).	
	14	Atassi et al., "Mapping of the antibody-binding regions on botulinum neurotoxin H-chain domain 855-1296 with anti-toxin antibodies from three host species," J. Prot. Chem. 15:691-700 (1996).	
	15	Atassi, "Immune recognition and cross-reactivity of botulinum neurotoxins," in Scientific and Therapeutic Aspects of Botulinum Toxins (edited by Brin et al.), pp. 385-408, Lippincott Williams and Wilkins, Philadelphia, PA (2002).	
	16	Bavari et al., "Identifying the principal protective antigenic determinants of type A botulinum neurotoxin," <u>Vaccine</u> 16:1850-1856 (1998).	
		Cenci Di Bello et al., "Antagonism of the intracellular action of botulinum neurotoxin type A with monoclonal antibodies that map to light-chain epitopes," <u>Eur. J. Biochem.</u> 219:161-169 (1994).	
- I Made 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18	Chen et al., "Antibody mapping to domains of botulinum neurotoxin serotype A in the complexed and uncomplexed forms," <u>Infect. Immun.</u> 65:1626-1630 (1997).	
	19	Clayton and Middlebrook, "Vaccination of mice with DNA encoding a large fragment of botulinum neurotoxin serotype A," <u>Vaccine</u> 18:1855-1862 (2000)	
a grand of the party of the par	20	Clayton et al., "Protective vaccination with a recombinant fragment of Clostridium botulinum neurotoxin serotype A expressed from a synthetic gene in Escherichia coli," Infect. Immun. 63:2738-2742 (1995).	
	21	Dertzbaugh and West, "Mapping of protective and cross-reactive domains of the type A neurotoxin of Clostridium botulinum," Vaccine 14:1538-1544 (1996).	
44.45	22	Dolimbek and Atassi, "Protection against alpha-bungarotoxin poisoning by immunization with synthetic toxin peptides," Mol. Immunol. 33:681-689 (1996).	·
	23	Dolimbek et al., "Cross reaction of tetanus and botulinum neurotoxins A and B and the boosting effect of botulinum neurotoxins A and B on a primary anti-tetanus antibody response,"  Immunological Investigations 31:247-262 (2002).	
	24	Dressler et al., "Antibody-induced botulinum toxin therapy failure: Can it be overcome by increased botulinum toxin doses?" Eur. Neurol. 47:118-121 (2002).	
- P + 4 12 (pg. 2	25	Goschel et al., "Botulinum A toxin therapy: Neutralizing and nonneutralizing antibodies—therapeutic consequences," Exp. Neurol. 147:96-102 (1997).	
	26	Hambleton et al., "A possible common antigen on clostridial toxins detected by monoclonal anti-botulinum neurotoxin antibodies," 449-450 (1984).	
	27	Jankovic, 'Botulinum Toxin: Clinical Implication sof Antigenicity and Immunoresistancey," in Brin et al. eds., Scientific and Therapeutic Aspects of Botulinum Toxin, pp. 409-415, Lippincott Williams & Wilkins, Philadelphia, PA (2002).	
	28	Klein, "Complications and adverse reactions with the use of botulinum toxin," <u>Dis. Mon.</u> 48:336-356 (2002).	
<b>Y</b>			

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12/4/05

SHEET Page 3 OF 4

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	ATTY. DOCKET NO. SERIAL NO. 10/821,669		
	APPLICANT ATASSI, M. Zouhair		
(PTO-1449)	FILING DATE April 09, 2004	1653 16 45	

18	29	Kozaki et al., "Development of antitoxin with each of two complementary fragments of Clostridium botulinum type B derivative toxin," Infection and Immunity 18:761-766 (1977).	
	30	Kozaki et al., "Immunological characterization of Papain-induced fragments of Clostridium botulinum type A neurotoxin and interaction of the fragments with brain synaptosomes," Infection and Immunity 57:2634-2639 (1989).	
	31	Kozaki et al., "The use of monoclonal antibodies to analyze the structure of Clostridium botulinum type E derivative toxin," Infection and Immunity 52:786-791 (1986).	
	32	Kubota et al., "Epitope regions in the heavy chain of Clostridium botulinum type E neurotoxin recognized by monoclonal antibodies," Applied & Environmental Microbiol. 63:1214-1218 (1997).	
	33	Lacy et al., "Crystal structure of botulinum neurotoxin type A and implications for toxicity,"  Nat. Struct. Biol. 5:898-902 (1998).	
	34	LaPenotiere et al., "Expression of a large, nontoxic fragment of botulinum neurotoxin serotype A and its use as an immunogen," <u>Toxicon</u> 33:1383-1386 (1995).	
	35	Middlebrook, "Protection strategies against botulinum toxin," in Atassi and Bixler (Eds.), Immunology of Poreteins and Peptides VIII p. 93-98 Plunum Press New York (1995)	
	36	Mullaney et al., "Epitope mapping of neutralizing botulinum neurotoxin A antibodies by phage display," <u>Infect. Immun.</u> 69:6511-6514 (2001).	 15.5 s s
	37	Naumann et al., "Depletion of neutralizing antibodies resensitises a secondary non-responder to botulinum A neurotoxin," J. Neurol. Neurosurg. Psychiatry 65:924-927 (1998).	
	38	Oshima et al., "Antibodies and T cells against synthetic peptides of the C-terminal domain (H <sub>C</sub> ) of botulinum neurotoxin type A and their cross-reaction with H <sub>C</sub> ," Immunol. Letters 60:7-12 (1998).	
	39	Oshima et al, "Immune recognition of botulinum neurotoxin type A: Regions recognized by T cells and antibodies against the protective H <sub>C</sub> fragment (residues 855-1296) of the toxin," Mol. Immunol, 34:1031-1040 (1997).	
	40	Pittman et al., "Antibody response to a delayed booster dose of anthrax vaccine and botulinum toxoid," <u>Vaccine</u> 20:2107-2115 (2002).	
	41	Pless et al., "High-affinity, protective antibodies to the binding domain of botulinum neurotoxin type A," <u>Infect. Immun.</u> 69:570-574 (2001).	-
	42	Rosenberg et al., "Localization of the regions on the C-terminal domain of the heavy chain of botulinum A recognized by T lymphocytes and by antibodies after immunization of mice with pentavalent toxoid," Immunol. Invest. 26:491-504 (1997).	
	43	Shyu et al., "DNA vaccination using the fragment C of botulinum neurotoxin type A provided protective immunity in mice," J. Biomed. Sci., 7:51-57 (2000).	
	44	Simeckova-Rosenberg et al., "Protection of mice against lethal viral infection by synthetic peptides corresponding to B- and T-cell recognition sites of influenza A hemagglutinin," Vaccine 13:927-932 (1995).	
	45	Simpson, "The study of clostridial and related toxins. The search for unique mechanisms and common denominators," J. Physiol., Paris 84:143-151 (1990).	
0	46	Spanoyannis et al., "Clostridium botulinum type B neurotoxin demonstrates cross-reactivity with antibodies from patients with cervical dystonia who no longer respond to type A neurotoxin treatment," <u>Developmental Medicine and Child Neurology</u> 40:33 Scientific poster SP:8 (1998).	

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- 12/9/08

SHEET Page 4 OF 4

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	ATTY. DOCKET NO. SERIAL NO. 10/821,669		
	APPLICANT ATASSI, M. Zouhair		
(PTO-1449)	FILING DATE April 09, 2004	GROUP 1653 16 4 5	

B	47	Tsuzuki et al., "Establishment of a monoclonal antibody recognizing an antigenic site common to Clostridium botulinum type B, C <sub>1</sub> , D, and E toxins and tetanus toxin," Infection and Immunity 56:898-902 (1988).				
	48	Wu et al., "Characterization of neutralizing antibodies and identification of neutralizing epitope mimics on the Clostridium botulinum neurotoxin type A," <u>Appl. Environ. Microbiol.</u> 67:3201-3207 (2001).				
	EXAMINER DATE CONSIDERED DATE CONSIDERED STATE OF THE PROPERTY					

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not it conformance and not considered. Include copy of this form with next communication to applicant.

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LIST OF THE KENCES CITED BY APPLICANT

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			U.S. PATE	NT DOCUMENTS				
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- V	FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
	(yes/no)							
OTHER REFERENCES								
		(Incl	uding Author, T	itle, Date, Pertinent Pages	, etc.)			
[ (A) B	BD	Singh et al, "Is	mmunochemi	ical characterization o	f Type A be	otulinum neur	otoxin in its	
purifed and complexed forms.", Toxicon, 1996, Vol. 36, No. 2, pages 267-278								
EXAMINER DATE CONSIDERED 28/6/								
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in								
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